# Dell™ OptiPlex™ 740 Tech Specs

MINITOWER

DESKTOP

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|---|---|---|---|
| CHIPSET | | nVIDIA® Quadro® NVS 210S Chipset (North Bridge), nForce 430 (South Bridge) | |
| OPERATING SYSTEM | | Dell recommends:<br>Microsoft® Windows® XP Professional<br>Microsoft Windows XP Home Edition | |
| PROCESSOR | | AMD Athlon™ 64 (up to 3800+ 2.4GHz, 512KB)<br>AMD Athlon™ 64 X2 Dual-Core (up to 5000+ 2.6GHz, 2 x 512KB) | |
| NETWORK CONTROLLER | | Integrated Broadcom® 5754 Gigabit* Ethernet LAN 10/100/1000 solution with Remote Wake Up and PXE support | |
| SYSTEMS MANAGEMENT | | Broadcom Full ASF 2.0 | |
| MEMORY | | | |
| | **DIMM Slots** | Four | |
| | **Type** | Dual channel* shared* DDR2 SDRAM system memory. Unbuffered, non-ECC DIMMs only | |
| | **Speed** | 533/667/800 MHz system memory bus frequency | |
| | **Modules Types Supported** | 256-MB, 512-MB, 1-GB, or 2-GB non-ECC | |
| | **Latency** | 533MHz : 4-4-4,<br>667MHz : 4-4-4 or 5-5-5<br>800MHz: 5-5-5 | |
| | **Minimum memory** | 512 MB | |
| | **Maximum memory** | 4 GB | |
| | **Bandwidth** | Up to 4.3GB/s of theoretical memory bandwidth for 533MHz memory in single channel mode and up to 8.6GB/s in dual channel mode.<br>Up to 5.3GB/s of theoretical memory bandwidth for 667MHz memory in single channel mode and up to 10.7GB/s in dual channel mode.<br>Up to 6.4GB/s of theoretical memory bandwidth for 800MHz memory in single channel mode and up to 12.86GB/s in dual channel mode. | |
| DRIVE BAYS AVAILABLE | | | |
| | **3 1/2 bay** | One | One |
| | **5 1/4 bay** | Two | One |
| | **Hard Drives Supported** | Two | One |
| SATA CONTROLLERS | | Two independent SATA 3.0Gb/s controllers, each supporting two devices (for a total of four devices).<br>The controllers are SATA 3.0Gb/s compliant and support 300MB/s on each channel, for a total of 600 MB/s in each direction.<br>One controller is used for the HDD the second controller is used for Optical Drives. | |

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| **HARD DRIVE OPTIONS** | | | |
| | **Number of drives supported** | Two | One |
| | **Supported Types** | Serial ATA 3.0Gb/s | |
| | **Available Drives** | 7200RPM SATA 3.0Gb/s : 40GB, 80GB, 160GB, 250GB*<br>10KRPM SATA 3.0Gb/s : 80GB* | |
| | **SMART Technology** | SATA 3.0Gb/s | |
| | **Transfer Rate** | 300 MB/s | |
| | **Hard Disk Encryption** | N/A | |
| | **Partition Support** | MS Windows XP Professional SP2: Support both FAT16 and FAT32. FAT32 will be the default configuration<br>MS Windows XP Home SP2: Support both FAT16 and FAT32. | |
| **SYSTEM BOARD CONNECTORS** | | | |
| | **Serial ATA** | Four 7-pin connectors | Two 7-pin connectors |
| | **PCIe x1** | 36-pin connector | None |
| | **PCIe x16** | 164-pin connector | |
| | **PCI 2.3** | 124-pin connector | |
| | **DVI Adapter** | 36-pin connector | |
| | **Memory** | 240-pin connectors | |
| | **Floppy drive** | 34-pin connector | |
| | **PS2/Serial** | 24-pin connector | |
| | **Fan** | 5-pin connector | |
| | **Internal Speaker** | 5-pin connector | |
| | **Internal USB** | 6-pin connector | |
| | **Chassis intrusion switch** | 3-pin connector | |
| | **Power (12V)** | 4-pin connector | |
| | **Power** | 12-pin connector | |
| | **Battery** | 2-pin socket | |
| | **Processor** | 940-pin connector | |
| | **Front panel** | 40-pin connector | |
| **STANDARD I/O PORTS** | | | |
| | **USB 2.0** | 8 USB 2.0 ports (2 front, 5 rear, 1 internal) | |
| | **Ethernet Network (RJ45)** | One | |
| | **Serial Port** | One, rear . Second is optional. (9-pin, 16550 compatible) | |
| | **Parallel Port** | One, rear. (25-hole, bi-directional) | |
| | **Display Port** | 1 VGA Out, rear (15-hole) | |
| | **Stereo line-in** | One minijack, rear | |
| | **Speakers, line-out** | One minijack, rear | |
| | **Microphone-in** | One minijack, front | |
| | **Headphone** | One minijack, front | |
| **EXPANSION BUS INFORMATION** | | | |
| | **PCI 2.3** | 33 MHz | |
| | **PCI Express 1.0a** | PCI Express x1: 5 Gbps (Not available on desktop chassis)<br>PCI Express x16: 80 Gbps | |
| | **USB 2.0** | 480 Mbps | |
| | **SATA 2.0** | 3.0Gbps | |
| **PCI-E x1** | Available Slots | One full-height | Not available |
| | Connector Size | 36 pins | |
| | Data Bus | One bi-directional differential lane pair (2.5Gb/s per lane) 5Gb/s total | |
| | Voltage | 3.3 Volt External Operation (some pins 5 Volt Tolerant);<br>1.8V internal regulation | |
| | Power | 10 W maximum | |
| **PCI** | Available Slots | Two full-height on board | Two low-profile on board<br>Riser Options*: Dual-PCI Riser *OR* Combo x16/PCI Riser |
| | Connector size | 124 pins | |
| | Data Bus | 32Bit/33MHz | |
| | Voltage | 3.3V | |
| **PCI Express x16** | Available Slots | One full-height on board | One low-profile on board<br>Riser Option*: Combo x16/PCI Riser |
| | Connector Size | 164 pins | |
| | Data Bus | 16 bi-directional differential lane pair (2.5Gb/s per lane) 80Gb/s total | |
| | Voltage | 12V | |
| | Power | 75 W maximum | 25 W maximum |

* One low profile PCI slot remains available on board when riser is in-

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| **Integrated nVIDIA® Quadro® NVS 210S** | | |
| **Graphics Core** | Direct 9.0c Shader Model 3.0 Graphics Processing Unit | |
| **Graphics Core Processor Speed** | 425MHz | |
| **Memory** | Between 64MB and 512MB of system memory may be allocated to support integrated graphics, depending on system memory size and other factors. | |
| **RAMDAC** | 300MHz RAMDAC for display resolutions up to and including 1920x1200 @ 75Hz | |
| **Maximum Resolution** | 1920x1200 @ 75Hz | |
| **Display Interface** | VGA DB-15 (analog) | |
| **Dual Monitor Support** | No | |
| **Display Rotation Support** | No | |
| **DVI (Digital) Adapter Card** | | |
| **Card Type** | PCI Express x16; Support for digital displays when using Integrated nVIDIA® Quadro® NVS 210S | |
| **Maximum Resolution** | Up to 1600x1200 at 65Hz resolutions | |
| **Display Interface** | DVI-D (Digital) | |
| **Dual Monitor Support** | Extended Desktop using 2 display adapters<br>Zoom Desktop using 2 display adapters<br>Clone and Twin display capabilities | |
| **Display Rotation Support** | No | |
| **Options** | Full height or low profile | |
| **128MB ATI Radeon® X1300** | | |
| **Card Type** | PCI Express x16 | |
| **Graphics Core** | Direct 9.0c Shader Model 3.0 Graphics Processing Unit | |
| **Graphics Core Processor Speed** | 425MHz | |
| **Memory** | 128MB | |
| **RAMDAC** | Dual 400MHz | |
| **Maximum Resolution** | 1920 x 1200 @ 75Hz, 16.7 million colors | |
| **Display Interface** | Single DVI and TV-out | |
| **Dual Monitor Support** | No | |
| **Display Rotation Support** | Yes | |
| **Options** | Full height or low profile | |
| **256MB ATI Radeon® X1300 Pro** | | |
| **Card Type** | PCI Express x16 | |
| **Graphics Core** | Direct 9.0c Shader Model 3.0 Graphics Processing Unit | |
| **Graphics Core Processor Speed** | 425MHz | |
| **Memory** | 256MB | |
| **RAMDAC** | Dual 400MHz | |
| **Maximum Resolution** | 1920 x 1200 @ 75Hz, 16.7 million colors | |
| **Display Interface** | Dual monitor DVI/VGA via cables, TV-Out | |
| **Dual Monitor Support** | Yes | |
| **Display Rotation Support** | Yes | |
| **Options** | Full height or low profile | |

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| **INTEGRATED AUDIO** | | |
| **Type** | Sigmatel 9200 HAD Codec | |
| **Stereo conversion** | 16-bit analog-to-digital; 20-bit digital-to-analog | |
| **Sampling Rate** | 48KHz | |
| **POWER** | | |
| **DC Power Supply Wattage** | 305W | 280W |
| **Power Efficiency** | 76% | 76% |
| **Input (max)** | 135Vrms/9.0Arms 264Vrms/4.5Arms | 135Vrms/6.0Arms 264Vrms/3.0Arms |
| **Output (max)** | 12.6V/18A 5.25V/22A 3.465V/22A 3.465V/17A -13.2V/1A 5.25V/4A | 12.6V/16A 5.25V/15A 3.465V/10A -13.2V/0.5A 5.25V/4A |
| **Voltage** | 90 to 135V and 180 to 265V at 50 to 60Hz | |
| **Manual selection / Auto-sensing** | Manual Selection | |
| **Backup battery** | 3-V CR2032 lithium coin cell | |
| **POWER MANAGEMENT** | | |
| **ACPI Wake-Up Event** | **System Wakes From** | |
| **Power Button** | Suspend or soft-off | |
| **RTC Alarm** | Suspend or soft-off | |
| **Wake On LAN (w/NIC)** | Suspend or soft-off | |
| **PME** | Suspend or soft-off | |
| **Serial Port Ring** | Suspend or soft-off | |
| **USB** | Suspend only | |
| **Keyboard** | Suspend only | |
| **Mouse** | Suspend only | |
| **CHASSIS PARAMETERS** | | |
| **Height** | 16.2" (41.1 cm) | 15.6" (39.6 cm) |
| **Width** | 17.0" (43.2 cm) | 13.7" (34.8 cm) |
| **Depth** | 7.4" (18.8 cm) | 4.5" (11.4 cm) |
| **Volume** | 33L | 15.7L |
| **Weight** | 27.2 lb (12.34 kg) | 23.1 lb (10.5 kg) |
| **PACKAGING PARAMETERS** | | |
| **Height** | 22.4" (56.9cm) | 20.6" (52.3cm) |
| **Width** | 22.2" (56.4cm) | 20.3" (51.6cm) |
| **Depth** | 14.5" (36.8cm) | 12.0" (30.5cm) |

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## ENCLOSURE & VENTILATION REQUIREMENTS

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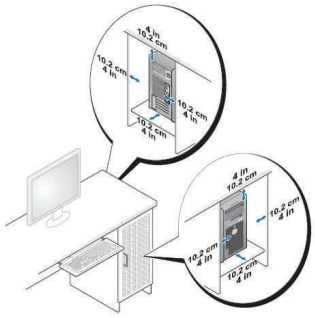
| **Enclosure Ventilation** | If your enclosure has doors, they need to be of a type that allows at least 30% airflow through the enclosure (front and back). |
| **Enclosure Minimum Clearance** | Leave a 10.2 cm (4 in.) minimum clearance on all vented sides of the computer to permit the airflow required for proper ventilation. |

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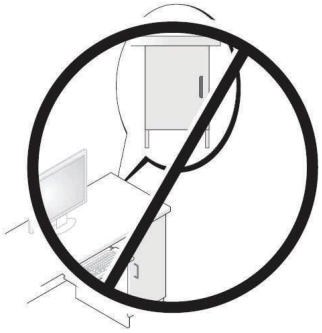
| **Recommended Enclosure** | Do not install your computer in an enclosure that does not allow airflow. This restricts the airflow and impacts your computer's performance, possibly causing it to overheat. |



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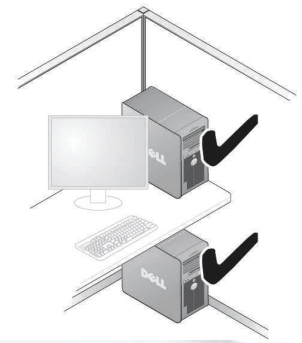
|---|---|
| **Open Desk Minimum Clearance** | If your computer is installed in a corner, on a desk, or under a desk, leave at least 5.1 cm (2 in.) clearance from the back of the computer to the wall to permit the airflow required for proper ventilation. |



## SECURITY

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| **Software Features** | Trusted Platform Module 1.2 (TPM 1.2), Chassis intrusion switch, Setup/BIOS Password, I/O Interface Security |
| **Physical Features** | Chassis Locks |

## STANDARDS

TCO99, Blue Angel, Green PC, Energy Star, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA99, SABS, SASO, TCO, TUV, UL, VCCI, USB 2.0, WEEE

## BIOS Factory Defaults (All Chassis)

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|---|---|---|---|---|---|
| **BIOS address** | FFFF0000 – FFFFFFFF | **Parallel Port mode** | PS/2 | **POST hot keys** | Setup & Boot Menu |
| **BIOS chip (NVRAM)** | 4 Mb | **Parallel Port address** | 378 | **Keyboard Num lock** | Report |
| **Floppy** | On (when installed) | **Keyboard error report** | On | **Password** | Disabled |
| **SATA drives** | On | **Onboard Video** | Auto | **Wake on LAN** | Off |
| **Onboard Video buffer** | 64MB | **Limit CPUID** | Off | **Comm Port** | Auto |
| **Primary Video** | Add-in | **HD Acoustic mode** | Bypass | **Low power mode** | Off (except EnergyStar) |
| **Onboard Audio** | On | **Suspend mode** | S3 | **HD Password** | Disabled |
| **Chassis intrusion** | On | **Auto Power on** | Off | **Module bay** | On |
| **Onboard NIC** | On (with out PXE) | **TPM** | Off | **Auto Power time** | 12:00am |
| **Onboard USB** | On | **Smart drive error report** | Off | **SERR** | On |
| **USB front panel** | On | **A/C recovery** | Off | **Fast Boot** | On |

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| **DISPLAYS** | | |
| **CRT** | 17" E773c/s (16.0" VIS)<br>17" M783 (16.0" V.I.S.)<br>19" UltraScan M993 (17.9" V.I.S) | |
| **Flat Panel Analog** | 15" E157FPb TFT Flat Panel (15.0" V.I.S.) 1024 x 768<br>17" E1737Pb TFT Flat Panel (17.0" V.I.S.) 1280 x 1024<br>19" E197FPb TFT Flat Panel (19 .0" V.I.S.) 1280 x 1024 | |
| **UltraSharp Digital Flat Panel Adjustable Stand, VGA/DVI** | UltraSharp 17" 1707FP TFT Flat Panel (17.0" V.I.S.) 1280 x 1024<br>UltraSharp 19" 1907FP TFT Flat Panel (19.0" V.I.S.) 1280 x 1024<br>UltraSharp 20" 2007FP TFT Flat Panel (20.0" V.I.S.) 1600 x 1200 | |
| **UltraSharp Widescreen Digital Flat Panel** | UltraSharp 20" 2007FPW TFT Flat Panel (20.0" V.I.S.) 1600 x 1050<br>UltraSharp 24" 2407FPW TFT Flat Panel (20.0" V.I.S.) 1600 x 1050 17" E773c/s (16.0" VIS) | |
| **PERIPHERALS** | | |
| **Keyboard Options** | Dell Enhanced QuietKey USB, Enhanced Performance USB, Dell Bluetooth Wireless Keyboard and Mouse, Smart Card Keyboard USB | |
| **Mouse** | Dell USB two-button and Dell USB optical two-button scroll | |
| **Speaker Options** | Internal Dell Business Audio Speaker<br>Dell™ A225 Speakers<br>Dell A525 30 Watt 2.1 three piece Stereo Speakers with Subwoofer<br>Dell™ AS501 Sound Bar, for all UltraSharp™ Flat Panel displays<br>Dell AS501PA Sound Bar, for all Entry Flat Panel displays | |
| **Removable Media Storage Devices** | USB Floppy Drive, CD-ROM<br>CD-RW/DVD Combo, DVD-ROM* and DVD+/-RW* | |
| **USB Storage Keys** | Dell USB Memory Key 128MB, 256MB, and 512MB* USB 2.0 full speed compliant and bootable | |
| **Wireless Adapter** | Dell Wireless 1450 (802.11 a/b/g) WLAN USB 2.0 DT Adapter | |

- Between 64MB and 512MB of system memory may be allocated to support integrated graphics, depending on system memory size and other factors.
- Dual-channel memory requires 2 each of the same capacity memory DIMMs.
- For writeable storage devices, MB means 1 million bytes; total accessible capacity varies depending on operating environment
- Desktops configured with 4GB of memory or more, the total amount of usable memory available will be less than 4 GB, depending on the actual system configuration. To utilize more than 4GB of memory requires a 64-bit OS.
- For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating system and will be less.
- DVD+/-RW Drives: Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility.
- DVD-ROM drives may have write-capable hardware that has been disabled via firmware modifications.
- Dell Limited Warranty: For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit www.dell.com/warranty.
- On Site Service: Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only.